#### This Page Is Inserted by IFW Operations and is not a part of the Official Record

#### BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

#### IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problems Mailbox.

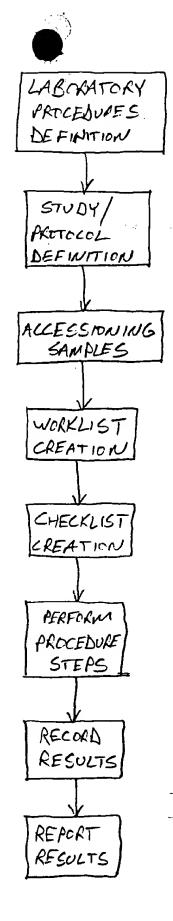


Fig 1

### Study Setup

### Clinical Study Definition

- Describes Sponsors & Investigators
- Declares SubjectAttributes to Capture
- Associates Specific Lab Procedures with a Clinical Study
- Defines Genotype
   Results to Report

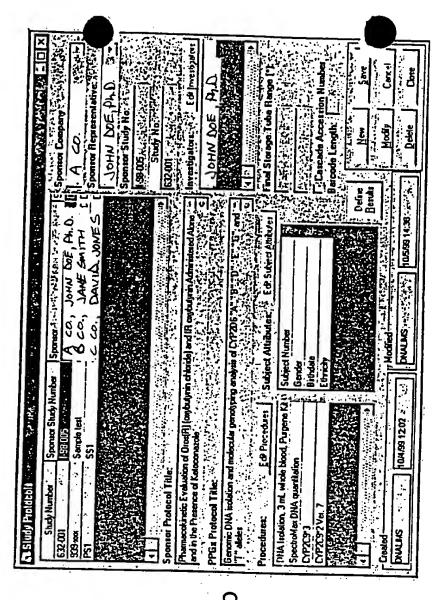
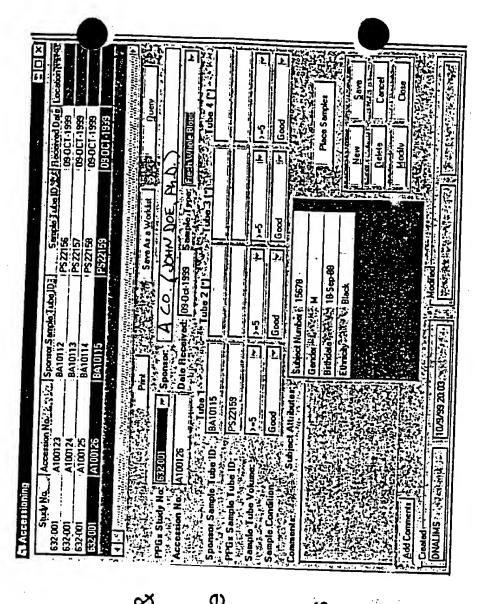


FIG 2

### Accessioning

Clinical Sample Registration

- Provides ValidationChecks for Accession & Tube ID's
- Accommodates Multiple Sample Tubes
- Enforces ControlledSubject Attribute Terms
- Supports Sample
   Worklist Workflow



# Sample Tracking

Supports Multiple
Container Classes
Allows User Defined
Container Geometries &
Templates

Maintains Sample & Container Location
Permits Flexible Sample
Loading & Rearrangement

Tracks and Maintains Container & Sample Ownership

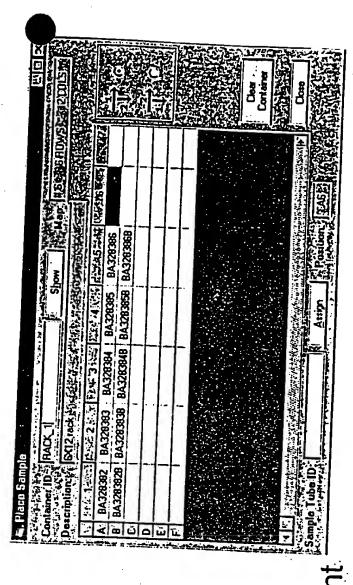


FIG. 4

# Sample Worklists

Named Sample Collections Assignable to Lab Scientists Groups Samples for Common Lab Operations

- Location
- Check-in/Check-out
- Lab Procedures

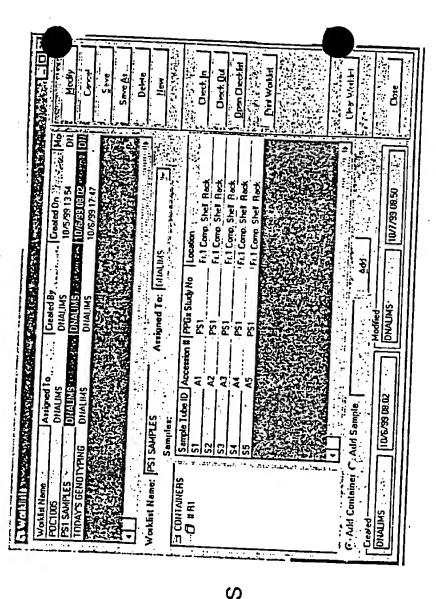


FIG. 5

# Electronic Procedure Checklists

Automates Laboratory Process Tracking

- Supports Standard
   Operating Procedures
- Maintains Uniform Laboratory Processes
  - Records Chain of Custody
- Tracks RepeatOperations

- N	And the second second	
1. 日本	Openium Company	New Batch
Locked Far M.: Ditalins.	CAIII2	
SULVATING	<u> </u>	
10/5/99 14:40	Alonoo (1)	The second second
10/5/ 10/5/ 10/5/ 10/5/	TES. S. B. DONE (F. D	11009 11009 11009 11009 11009 11009 11009 11009
Cated By Target Mains Mains Mains Mains Mains	1.544PtE	11009  F P P P P P P P P P P P P P P P P P P
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		(f.) Cested: Virialization
	AcADIES 21/34 ft	
ugene Killing	e sous	us wate
Triffer of the proof of the pro	Control of the second of the s	oneng oteng oteng bod Page
December   1975   197		neder into bil pelet by w
Procedus DWA Incluion CYPZC92 Ver CYPZC92 Ver CYPZC92 Ver CYPZC92 Ver CYPZC92 Ver CYPZC92 Ver		Certifuge 10 mindes of 300RPM  Pour oil supermelent into biohazardous waste.  Resurpend cel pellet by voitearing  A A A A A A A A A A A A A A A A A A A
	1, 2	□ · □ · □ · □ · □ · □ · □ · □ · □ · □ ·

<u>.</u>

SOP Version A A A A A A A A A A A A A A A A A A A	GYP2D 64	Same Cancel Close	29
SDP:Number GEN9709 MAX9802 GYP2C9.2 GYP2C9.2	SOP:Number SOP:Version	New Modify Delete	10/5/99;10:59
	SO Status		Modfied DNALIMS
a blood, Purgene Kit  blood, Purgene Kit  stion  Mication of GYP206:'A!'Alleic by RFLP-PCR			
ole blood, Purgene Kit Ildhwww.xxxxxxxxx Istion	Alloloes Significant		10/4/99 12:02
Procedure  DNA I solation, 3 mL whole blood 2DSAllele VAUIdentification SpectroMax DNA quantitation CYP2C9-3 CYP2C9-2Ver. 7 CYP2C9-2Ver. 6 CYP2C9-3 CYP2C			P S P P P P P P P P P P P P P P P P P P
Process Cype Cype Cype Cype Cype Cype Cype Cype			Created DNALIMS

## Procedure Steps

A Single Step in a Lab Procedure

Multiple Types:

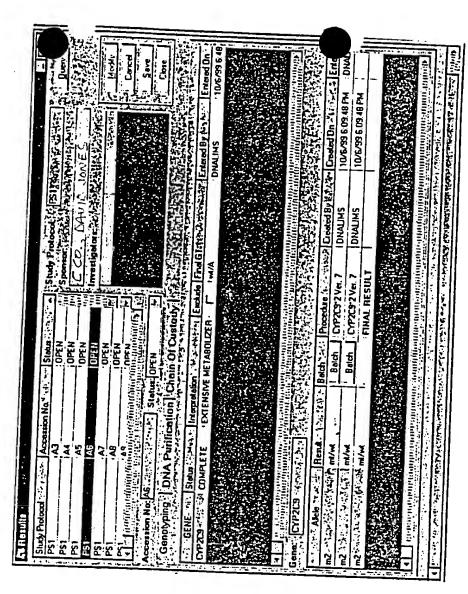
- Transfer
- Dilution
- ConcentrationAdjustment
- Sample Preparation
   Highly Customizable
   Plug-in Architecture to
   Add New Types
   Interfaces to Automation

41 Procedure Steps	
Trucedure: JUNA Isolation, 3 mt. whole blood, Purgene Kit	17.216.87.01A
である。 できない できない できる できる できない BBO かっとうかん かき こうかいしょ	The same of the sa
Thew frozen blood Var. ( The Control of the Control	m bood we in the light of the
Gently mix sample serve in proceedings of the party of th	Betch III
I I tension 3 mL of blood to Lysis have the training a	Batch \$105
Add 9 mt. of RBC base in BBC at 1, 4 - crain and	Transfer Balch MAN
Mix and incubate 10 minutes at from terror start.	Reagent Addition Batch - 1920
	Betch
	Batch (
	Batch (
	Betch
Sample can be stored for 18 months at D.T. Car.	Respert Addition Betch
STOP POINT CAR STORY AND THE PROPERTY OF THE P	
The state of the s	wilder with a the second secon
Stept Add 9 mt of RBC but to RBC but take:	Sale Control of the last
Constitution of the state of th	ない。
C. Informational C. CheckBox 1911	
	St. William St. Better 19 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Π.	
1000年の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の	1000000
TOTAL CONTRACT OF THE PROPERTY	
To Ind volume to the FALSE TO SEE THE FALSE TO THE VOLUME TO THE FALSE THE PASSES OF T	一次推行的企業改革的企业。 1000年的工作,在1000年的工作,由
A STATE OF THE PROPERTY RESPONDENCE OF THE PROPERTY OF THE PRO	Sand Sand
a transfer and the second seco	New
	The state of the s
Total a Bunch summa	Zeele 5
The state of the s	JRUE; KAST
1 Cock parameters	1000% 平面
1	PAROMETER STATE OF THE PROPERTY OF THE PROPERT
	DIALINS S. 157.15 ( 9/30/39 14.42).

# Genotype Results

Accommodates Values for Multiple Genes,
Alleles & Assays
Provides Master Review by Accession Number
Supports Acceptance & Final Approval by Study Director

Imports Results Electronically or Manually



#### Auditing

Track Changes in Database

- Study
- Lab Procedures
  - Sample
- Results

Flexible Audit Reporting Chain of Custody by Accession

ADD.	X  X  DHALINS  X  DHALINS  X  DHALINS  X  DHALINS  X  DHALINS  Genomic DHA balrion and DHALINS	Pirit Close
中央の場合は   本では   本ののでは、   本のでは、   本	valuation of STUDY: 1	
	800 901 901 903 909 908 908 908 908 908 908 908 908 908	からからである。
Adudit Report Section Proteon And Trial Section Sectio	100 100 100 100 100 100 100 100	The state of the state of

#### Reporting

Multiple Report Types

- Genotype Results
  - DNA Integrity
- Purification Results
- Sample Lists
- Audit Trails

Flexible Reporting Output Using Excel

Customized Reporting Using 3rd Party Tools

	11/16 ste of Birth 531/66 87267 57268 4/11/14 99/77 573/66 87267 87268 4/11/14	
	Subject Numbject Initi ste of Birth  1 ital 5/31/65  2 bb 8/2/65  3 lsc 5/22/65  4 jmm 4/11/1/4  5 lm 9/9/77  1 ital 5/31/65  2 lib 8/2/67  3 lsc 5/22/65  4 jmm 4/11/1/4	_
itive:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-
Spansor: Representative: Investigator(s):	Yield A260 A230 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Start Vol. DNA Vol. Yreid  GAGGOD 499  02/19/02 48 0  19/05/02 248 0  19/05/02 248 0  19/05/03 248 0  19/05/03 248 0  19/05/03 248 0	
	Protocol  Sample lest Sample lest Sample lest Sample lest	
Study: Test Study #: 999 xxx	Sample # Storage # µg/ml  EA11112  EA11113  EA11114  EA11117  EA11119  EA11119  EA11119  CA11119	